



Pinnacles Civil
Design | Build | Asset Management

WILLOWS RD & BAXTER RD, WAIHI

CONDITION INSPECTION PROGRAMME

2_0794

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INTRODUCTION

OceanaGold is undertaking construction activities associated with the Waihi North Project, which will require the use of Willows Rd & Baxter Rd for access and transport. Pinnacles Civil Group have been engaged by OceanaGold to undertake pavement/bridge condition inspections at both Willows Rd & Baxter Rd, Waihi. This report covers the proposed condition inspection programme which is to be provided to Hauraki District Council as part of the requirements of the land use consent conditions. This programme establishes a baseline condition for the road pavement, bridges, and traffic volumes prior to construction and outlines the process for ongoing monitoring. The programme includes visual fault inspections, high-quality video recording, bridge inspections and traffic count data.

SCOPE

The scope of this condition inspection programme includes the following:

- **Road Pavement Condition Assessment**
 - Visual inspection – All faults inspection¹ with accompanying summary reports
 - High quality video recording of roads in both directions
- **Bridge Condition Assessment**
 - Bridge condition inspection with accompanying summary reports
 - Existing condition inspections have been completed for both Willows and Baxter Road bridges, and works are programmed on both bridges, existing condition inspections can be used and further inspections completed after any repairs works
- **Traffic Count Data Collection**
 - Weeklong traffic count detailing average daily traffic and traffic make up (percentage split of light, medium and heavy vehicles)
 - Willows Rd count was conducted on 07/11/2019 and has been deemed acceptable to be taken from RAMM as the baseline
 - Baxter Rd count is required to be conducted to establish a baseline, as the previous data from 09/11/2012 has been deemed out of date

PROCESS

The following steps outline the process for implementing this condition inspection programme:

- **Programme Preparation**
 - Engineer is to draft inspection methodology and programme (this report)
 - Submit the programme to HDC's Transportation Manager for consultation and approval
- **Inspection Execution**
 - Conduct inspections in consultation with HDC Transportation Manager or representative
 - Record all findings with photographic evidence and supporting written documentation

¹ An 'All Faults Inspection' refers to the visual identification of pavement condition faults - any rutting, shoving, potholes, corrugations, edgebreak, bleeding, detritus, & ponding water within the sealed lane width.

INSPECTION PROGRAMME

Phase	Inspection	Personal	Frequency
<i>Pre-Construction Inspections</i>	Road Pavement Condition Assessments	Pinnacles Civil Engineer and HDC representative	Prior to construction activities beginning in Area 2 and/or Area 5
	Bridge Condition Assessments	NIL – Use existing Bridge condition inspections to determine baseline. It is understood Bridges on Willows and Baxter Road have repair works programmed so further inspection should be programmed after works are completed.	
	Willows Road Vehicle Count	NIL – Existing count from 2019 deemed acceptable	
	Baxter Road Vehicle Count	Pinnacles Civil Subcontractor	Prior to construction activities beginning in Area 5
<i>Ongoing Inspections</i>	Road Pavement Condition Assessments	Pinnacles Civil Engineer and HDC representative	Annually thereafter, or at alternative intervals as agreed in writing by HDC. From start of SFA construction to completion.
	Bridge Condition Assessments	Pinnacles Civil Staff and/or Subcontractor	After completion of programme bridge repair works, annually thereafter, or at alternative intervals as agreed in writing by HDC. From start of SFA construction to completion.
	Weeklong Baxter & Willows Road Vehicle Counts	Pinnacles Civil Subcontractor	One count during construction. To be done during a typical construction week.

DOCUMENTATION & COMPLIANCE

All inspection reports, count data and videos will be:

- Provided by Pinnacles Civil to OGL and HDC, via OneDrive link.
- Include supporting photographs, video references, and traffic count data where applicable.
- Used to inform baseline and any deterioration.
- Be retained for the duration of the consent period and to verify compliance with all consent conditions.

APPENDIX A

RELEVANT CONSENT CONDITONS EXTRACT - #75 TO #82

Willows Road Maintenance		
75	<p>At least two months prior to the commencement of construction activities in Area 2, and prior to commencing the upgrade of Willows Road required by Condition 72, the Consent Holder must engage a suitably qualified and experienced road maintenance engineer to prepare a programme to assess and record the condition of the existing road pavement and bridge on Willows Road. This programme must be submitted to the Hauraki District Council for certification before the assessment is conducted. The inspection and recording of the road pavement condition, and bridge condition, must be undertaken in consultation with the Hauraki District Council's Transportation Manager.</p> <p>The pavement condition rating (including vehicle counts) is to be used as the baseline for assessing the works required to return the road pavement to at least its standard / condition prior to the commencement of the construction of the Willows SFA.</p>	
76	<p>For the period from construction of the Willows SFA to final closure and restoration, the Consent Holder must, in conjunction with a Council representative, undertake a road pavement inspection of Willows Road annually or at such other intervals as may be agreed in writing by the Hauraki District Council.</p>	



77	The Consent Holder must reimburse the Hauraki District Council for the cost of any road pavement maintenance (potholes / surface rutting etc) caused by the activities authorised by this consent. The maintenance cost will be calculated on a pro-rata basis against the baseline heavy vehicle traffic volumes and taking into account any financial assistance received by Council for maintenance.	
78	At the completion of the rehabilitation and closure of Area 2, and where not otherwise reimbursed in accordance with Condition 77, the Consent Holder must return the road pavement condition of Willows Road to that identified in the road pavement condition survey carried out in accordance with Condition 75 of this consent at the Consent Holder's expense and to the satisfaction of the Hauraki District Council.	
<i>Baxter Road</i>		
79	<p>At least two months prior to the commencement of construction activities in Areas 5, 6 or 7, the Consent Holder must engage a suitably qualified and experienced road maintenance engineer to prepare a programme to record the condition of the existing road pavement and bridge on Baxter Road. This programme must be submitted to the Hauraki District Council for certification before the assessment is conducted. The inspection and recording of the road pavement condition, and bridge condition, must be undertaken in consultation with the Hauraki District Council's Transportation Manager.</p> <p>The pavement condition rating (including vehicle counts) is to be used as the baseline for assessing the works required during the period in which mining operations authorised by this consent are occurring, to return the road pavement to at least its standard / condition prior to the commencement of the construction works in Areas 5, 6 or 7.</p>	
80	The Consent Holder must, in conjunction with a Council representative, undertake an annual road pavement inspection of Baxter Road during the term of the consent.	
81	The Consent Holder must reimburse the Hauraki District Council for the cost of any road pavement maintenance (potholes / surface rutting etc) on Baxter Road caused by the activities authorised by this consent. The maintenance cost will be calculated on a pro-rata basis against the baseline heavy vehicle traffic volumes and taking into account any financial assistance received by Council for maintenance.	
82	At the completion of construction works at Areas 5, 6 and 7, and where not otherwise reimbursed in accordance with Condition 81, the Consent Holder must return the road pavement condition of Baxter Road to that identified in the road pavement condition survey carried out in accordance with Condition 79 of this consent at the Consent Holder's expense and to the satisfaction of the Hauraki District Council.	

